

Project: Strengthening Ukraine and EU research cooperation in the field of Material Sciences

- **Acronym : SUCCESS**

*Coordinator : Institute for Scintillation Materials
NAS of Ukraine, Kharkov*

MAIN ACTIVITIES :

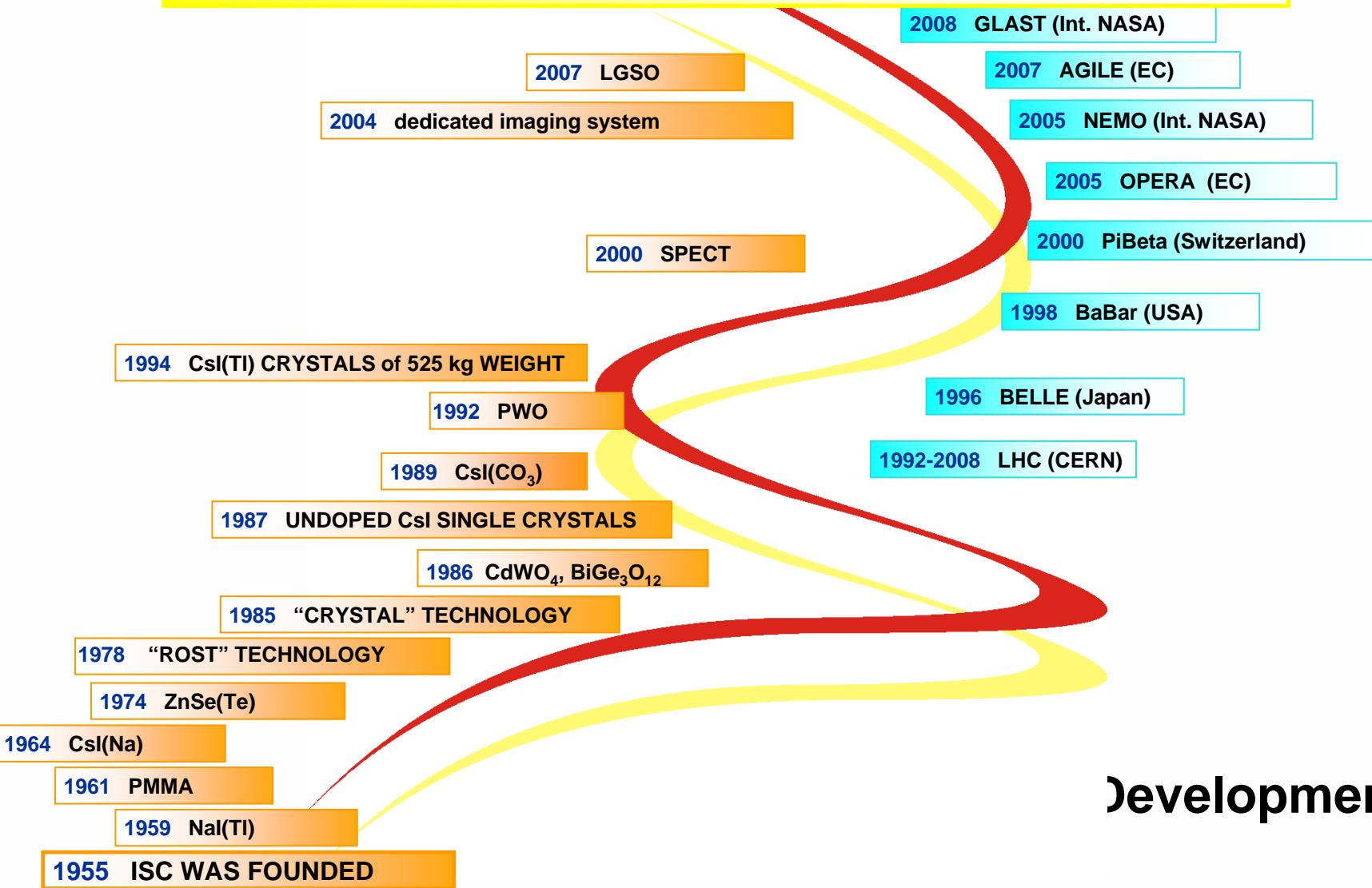
- ✓ Analysis: strategy of the cooperation between ISMA and EC scientific and R&D centers on the base on SWOT analysis.
- ✓ Twinning activity: scientific cooperation of ISMA and UCBL (mutual scientific projects, European workshops and conference management, scientists exchange, access to European scientific facilities
- ✓ International cooperation: scientific&development promotion, use of European “technology platform” and European scientific facilities integration to EC programs in favor of later FP7 progress.
- ✓ Education and training activity: students and PhD study, general educational activity, cooperation with EC universities

The ERA-WIDE activities covered by the call are:

- ✓ Networking with research centers in Member States or Associated Countries in view of disseminating scientific information, identifying partners and setting up joint experiments;
- ✓ Developing training modules to build competency and facilitate the participation in FP7 of the centers located in the targeted third countries;
- ✓ Developing the research centers' strategy in order to increase their scope (regional coverage, activities) and to improve their responses to the socio-economic needs of their countries and of the region.

2010... – New scintillators ?

TAHCAL ?



Scientific and business links as back ground to success:

- * scientific level at the field of expertise
- * International recognition and good references
- * Experience with other submissions

ISMA. International projects:

LHC (CERN, Switzerland), BELLE (KEK, Japan), BaBar (SLAC, USA),
PiBeta (PSI, Switzerland), neutrino search (OPERA), NEMA (France),
astrophysics GLAST (international NASA mission), AGILE (EC) etc.

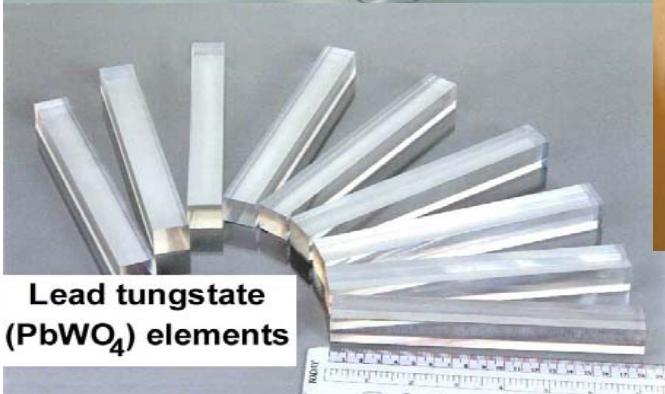


ISMA. Engineering and business links:

Siemens, GE, Philips Medical Systems – medical imaging, ORNL (USA),
Smith Heimann (Germany) – security etc.

Inorganic scintillators

Cadmium tungstate
(CdWO₄)



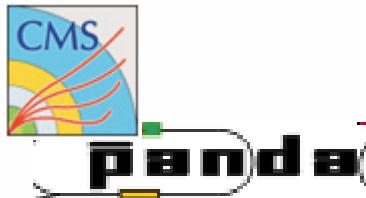
Full chain from the raw material synthesis to crystal and detector

Organic scintillators, plastics, Liquid scintillators etc.



ISMA for International Collaborations

High Energy and Nuclear Physics



CMS



PANDA

NEMO



OPERA

Space Missions



GLAST (USA, Sweden...)



Medium Energy Physics

BELLE (Japan)



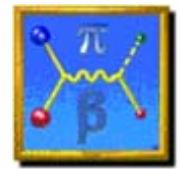
BaBar (USA)



PiBeta (Switzerland)



KEDR



FAIR ?



AGILE (Italy)

Detectors and Systems Engineering:

- Environmental
- Security
- Medical imaging
- Industrial

